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High efficiency, two-digit numeric displays

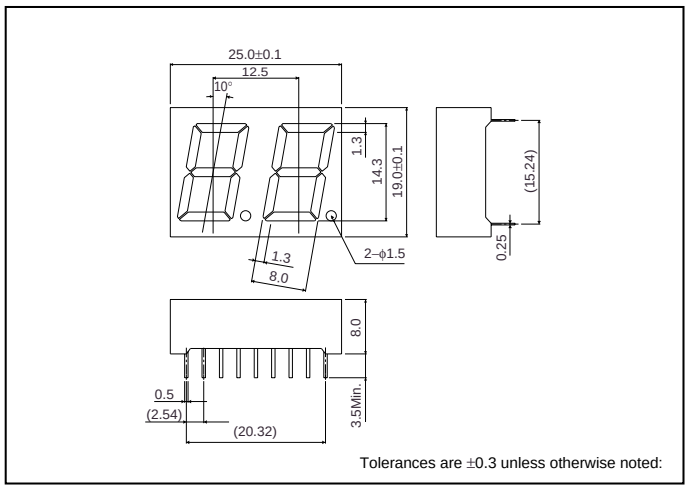
LB-602AK2 Series

The LB-602AK2 series of LED displays were designed for use in bright locations. The character height is 14.3mm and four colors are available : red, orange, yellow, and green.

●Features

1) Height of character : 14.3 mm
2) External dimensions : 19 × 25 × 8.0 mm.
3) Common anode and common cathode configurations are available for each color.
4) The package surface is painted black and the segments are colored the display color.
5) High luminance, clear display.

●External dimensions (Units : mm)



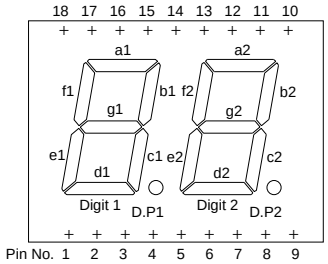
Tolerances are ±0.3 unless otherwise noted:

●Selection guide

Common \ Emitting color	Red	Orange	Yellow	Green
Anode	LB-602VA2	LB-602DA2*	LB-602YA2*	LB-602MA2
Cathode	LB-602VK2	LB-602DK2*	LB-602YK2*	LB-602MK2

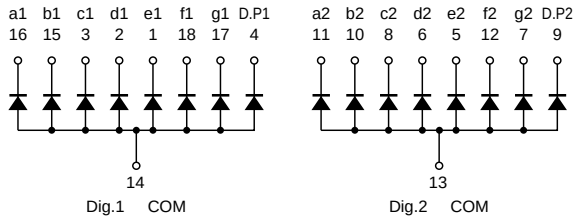
* Order-based production.

●Pin assignments



Pin No.	Function	Pin No.	Function
1	Segment "e1"	10	Segment "b2"
2	Segment "d1"	11	Segment "a2"
3	Segment "c1"	12	Segment "f2"
4	D.P1	13	Digit 2 Common
5	Segment "e2"	14	Digit 1 Common
6	Segment "d2"	15	Segment "b1"
7	Segment "g2"	16	Segment "a1"
8	Segment "c2"	17	Segment "g1"
9	D.P2	18	Segment "f1"

● **Internal circuit schematic** (example of common anode)



● **Absolute maximum ratings** (Ta = 25°C)

Parameter	Symbol	Red	Orange	Yellow	Green	Unit
		LB-602VA2 / VK2	LB-602DA2 / DK2	LB-602YA2 / YK2	LB-602MA2 / MK2	
Power dissipation	P_D	960	960	960	960	mW
Power dissipation	P_D / seg	60	60	60	60	mW
Forward current	I_F	20	20	20	20	mA
Peak forward current	I_{FP}	60*	60*	60*	60*	mA
Reverse voltage	V_R	5	5	5	5	V
Operating temperature	Topr	−25~+75				°C
Storage temperature	Tstg	−30~+85				°C

* Pulse width 1ms duty 1 / 5

● **Electrical and optical characteristics** (Ta = 25°C)

Parameter	Symbol	Conditions	Red			Orange			Yellow			Green			Unit
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Forward voltage	V_F	I_F = 10mA	–	2.0	2.8	–	2.0	2.8	–	2.1	2.8	–	2.1	2.8	V
Reverse current	I_R	V_R = 5V	–	–	100	–	–	100	–	–	100	–	–	100	μA
Peak wavelength	λ_P	I_F = 10mA	–	650	–	–	610	–	–	585	–	–	563	–	nm
Spectral line half width	$\Delta\lambda$	I_F = 10mA	–	40	–	–	40	–	–	40	–	–	40	–	nm

◎ Not designed for radiation resistance.

● **Luminous intensity**

Color	λ_P	Type	Min.	Typ.	Max.	Unit
Red	650	LB-602VA2	5.6	16	–	mcd
		LB-602VK2				
Orange	610	LB-602DA2	3.6	10	–	mcd
		LB-602DK2				
Yellow	585	LB-602YA2	3.6	10	–	mcd
		LB-602YK2				
Green	563	LB-602MA2	9	25	–	mcd
		LB-602MK2				

Note : Measured at I_F = 10mA